

**AMENDMENTS TO THE SPECIFICATION**

Please add the following after the paragraph beginning on page 5, line 8 of the specification:

Fig. 1A illustrates a microbioreactor of the invention including various mixing, heating/dispersion, reaction, and separation units, in expanded view;

Please amend the paragraph beginning on page 6, line 29 of the specification as follows:

Fig. 1 shows microreactor 10 in expanded view. As illustrated, each of units 14 and 16 (heating/dispersion and reaction units, respectively) includes at least one adjacent temperature control element 20-26 including a channel 28 through which a temperature-control fluid can be made to flow. As illustrated, temperature control units 20 and 24 are positioned above and below unit 14 and units 22 and 26 are positioned above and below unit 16. Separation unit 18 includes upper and lower extraction solvent fluid units 30 and 32, respectively, separated from unit 18 by membranes 34 and 36, respectively. Fig. 1A shows a similar microreactor having more than one reaction unit (certain elements removed for purposes of clarity).